

**IN THE CLAIMS**

Please cancel claims 1 and 8 without prejudice or disclaimer, and amend claims 2, 9, 10, 11, and 12, as follows:

1. (Cancelled)
2. (Currently amended) An electrophoresis chip comprising:
  - an electrical insulating substrate having a linear hydrophilic region and a hydrophobic region adjacent to said hydrophilic region on a surface of said substrate;
  - an electrophoresis medium, formed on said hydrophilic region of said substrate ~~by providing and having a gap of a predetermined length in one place in a longitudinal direction; and~~
  - a pair of electrodes connected to both ends of said electrophoresis medium in said longitudinal direction.
3. (Original) The electrophoresis chip according to claim 2, wherein said substrate is glass.
4. (Original) The electrophoresis chip according to claim 2, wherein said electrophoresis medium is a gel.
5. (Original) The electrophoresis chip according to claim 2, wherein a sample is held in said gap.
6. (Original) The electrophoresis chip according to claim 2, wherein said gap is provided in a position close to one end from a center of said electrophoresis medium in said longitudinal direction.

7. (Original) The electrophoresis chip according to claim 6, wherein a length of a longer element medium of two element media of said electrophoresis medium divided into two parts by said gap is set in a range of 10 mm to 100 mm.
8. (Cancelled)
9. (Currently amended) ~~The electrophoresis chip according to claim 1, wherein An electrophoresis chip, comprising:~~

an electrical insulating substrate; and  
an electrophoresis medium, formed to be linear on a surface of said substrate  
and having a gap, wherein a region adjacent to said electrophoresis medium on said  
surface of said substrate is hydrophobic; and  
a length of said gap in [[said]] longitudinal direction of said electrophoresis  
medium is set in a range of 0.2 mm to 1 mm.
10. (Currently amended) An electrophoresis chip comprising:

an electrical insulating substrate having a plurality of linear hydrophilic regions formed ~~almost in substantially~~ parallel on a surface and a hydrophobic region adjacent to said hydrophilic regions;  
a plurality of electrophoresis media, each formed on one of said plurality of hydrophilic regions of said substrate ~~by providing and having a gap of a predetermined length in one place in a longitudinal direction;~~ and  
a pair of electrodes, one being connected to one [[ends]] end of each said plurality of electrophoresis media and the other being connected to the other [[ends]] end of each thereof.
11. (Currently amended) An electrophoresis chip comprising:

an electrical insulating substrate having a plurality of linear hydrophilic regions formed ~~almost in substantially~~ parallel on a surface of said substrate and a hydrophobic region adjacent to said hydrophilic regions;

a plurality of electrophoresis media, each formed on one of said hydrophilic regions of said substrate ~~by providing and having a gap of a predetermined length in one place in a longitudinal direction~~; and

plural pairs of electrodes individually connected to both ends of each of said plurality of electrophoresis media.

12. (Currently amended) An electrophoresis chip comprising:

an electrical insulating substrate having a thin and long hydrophilic region formed on a surface of said substrate and a hydrophobic region formed surrounding said hydrophilic region; and

an electrophoresis medium, formed on said hydrophilic region of said substrate ~~by providing and having a gap of a predetermined length in one place in a longitudinal direction~~,

wherein an electrophoresis lane is formed by said electrophoresis medium and sample solution supplied to said gap.

13. (Previously presented) The electrophoresis chip according to claim 2, wherein a width of said electrophoresis medium is set in a range of 0.1 mm to 5 mm.